

Switch OFF the nominal DRCU
File: H_FCP_SPI_NDRF.xls
Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to switch OFF the nominal
Detector Readout and Control Unit (DRCU)

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

SPIRE is in DRCU_ON mode

End of Procedure

SPIRE is in DPU_ON mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HFSNDRF

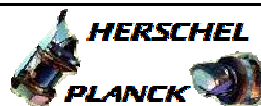
Referenced Displays

ANDs GRDs SLDs
SA_7_559
ZAZ7F999

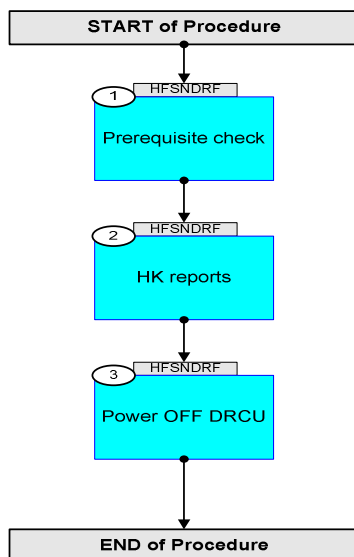
Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|------------|-----------|---------|---|------------|---------|
| 07/08/2007 | | 1 | Created | R. Biggins | |
| 21/11/2007 | | 1.01 | Validation : Time tag added to LCL off command | R. Biggins | |
| | | | Update due to initial testing against the simulator:□ | | |
| 15/01/2008 | | 2 | - TCs updated due to new DB | R. Biggins | |

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Procedure Flowchart Overview

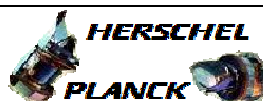


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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|-------------------------------|------------------------------|---|----------------------------|-----------------|
| Beginning of Procedure | | | | |
| HFSNDRF Switch OFF DRCU (Nm) | | | | |
| SSID : | | | | |
| 1 | | Prerequisite check | | Next Step: 2 |
| | | Verify Telemetry MODE SM00M500 | = DRCU_ON | AND=SA_7_559 |
| 2 | | HK reports | | Next Step: 3 |
| | ET=+00.00.00 UT=+00.00.00 | SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE ---- -- -- SSID : 370 | SC001500 8c020001 <hex> | |
| | ET=+00.00.02 UT=+00.00.02 | SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE ---- -- -- SSID : 370 | SC002500 ff <hex> | |
| | | Verify Telemetry MODE SM00M500 | = DRCU_OFF | AND=SA_7_559 |
| | ET=+00.00.02 UT=+00.00.02 | SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE ---- -- -- SSID : 370 | SC002500 0 <hex> | |
| | | Verify Telemetry MODE SM00M500 | DPU_ON | AND=SA_7_559 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|------------------|------------------------------|--|----------------------------|-------------------|
| | ET=+00.00.05 UT=+00.00.05 | SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370 | SC001500 80000000 <hex> | |
| | ET=+23.59.59 UT=+23.59.59 | CLEAR_HK_REPORT CLEAR_HK_REPORT Command Parameter(s) : PCKTID_CLEARHK SPR6N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370 | SCR01500 300 <hex> | |
| | ET=+00.00.00 UT=+00.00.00 | CLEAR_HK_REPORT CLEAR_HK_REPORT Command Parameter(s) : PCKTID_CLEARHK SPR6N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370 | SCR01500 301 <hex> | |
| | | Ensure that the following parameter is not incrementing every 4 seconds TM2N SMT1N500 | | AND=SA_7_559 |
| | | Ensure that the following parameter is not incrementing every 4 seconds THSK SM00T500 | | AND=SA_7_559 |
| 3 | | Power OFF DRCU | | Next Step: END |
| | ET=+00.00.00 UT=+00.00.00 | Execute Telecommand SwOff_SpireHSFCU_N_L51 TC Control Flags : GBM IL DSE --Y -- --- SSID : 10 | DC51B170 | |
| | | Verify Telemetry SpirHsfN_L51_1S WM42C565 | = OFF | AND=ZAZ7F999 |
| | | Verify Telemetry SpireHsfN_L51_I WM408565 | = 0.0 A | AND=ZAZ7F999 |
| End of Procedure | | | | |